

Docket No.: 070795-0013



**PATENT**

*cfc*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of	:	Customer Number: 20277
Masahito TADA, et al.	:	Confirmation Number: 7124
Application No.: 10/528,654	:	Group Art Unit: 1724
Patent No.: 7,208,555 B2	:	
Filed: March 22, 2005	:	Examiner: Wu, Ives J.
Issued: April 24, 2007	:	
For: PROCESS FOR PREPARING POLYVINYLIDENE FLUORIDE COPOLYMER		

**REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.322**

Mail Stop CERTIFICATE OF CORRECTION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Certificate**  
MAY 30 2007  
**of Correction**

Sir:

In reviewing the above-identified patent, a printing error was discovered therein requiring correction in order to conform the Official Record in the application.

The error noted is set forth on the attached copy of form PTO-1050 Rev. 2-93 in the manner required by the Commissioner's Notice.

Specifically, on the title page, in Item "(56) References Cited", in the listing of "FOREIGN PATENT DOCUMENTS", delete the following three references "JP 0 508 802 A1 10/1992", "JP 0-508802 A1 \* 10/1992" and "JP 05 -08802 A1 \* 10/1992" and replace with - - **EP 0 508 802 A1 \* 10/1992** - -. In addition, delete the duplicate listing of "JP 04-311711 \* 4/1992". Please note that the listing includes a correct version of "JP 04-311711" which reads as follows: - - **JP 04-311711 11/1992** - -. Copies of the title pages of European reference 0 508 802 A1 and

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Japanese reference JP4311711, as well as copies of PTO 892 forms issued with Office actions of October 26, 2005 and March 31, 2006 and a PTO 1449 form filed with the application, all with the correct country and publication date information are attached for your information and convenience.

Furthermore, in the description, Column 3, line 24 and in the claims, Column 14, line 29, the word "chlorotrifluoroethylehe" should be corrected to read - - **chlorotrifluoroethylene** - -. The correct spelling of the afore-mentioned word can be found in the application as filed.

The change requested herein occurred as a result of printing the Letters Patent and the Certificate should be issued without expense under Rule 322 of the Rules of Practice. Accordingly, Applicants request issuance of the Certificate of Correction.

Please charge any shortage in fees due in connection with the filing of this paper to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

*Bernard P. Gold* (Reg. No. 46,429)  
for  
Brian K. Seidleck  
Registration No. 51,321

600 13<sup>th</sup> Street, N.W.  
Washington, DC 20005-3096  
Phone: 202.756.8000 BKS:bd  
Facsimile: 202.756.8087  
**Date: May 25, 2007**

**Please recognize our Customer No. 20277  
as our correspondence address.**

WDC99 1401802-1.070795.0013

MAY 30 2007

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

APPLICATION NO.: 10/528,654

PATENT NO. : 7,208,555 B2

DATED : April 24, 2007

INVENTOR(S) : Masahito TADA, et al.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page,

Item "(56) References Cited", in the listing of "FOREIGN PATENT DOCUMENTS", delete the following three references

" JP 0 508 802 A1 \* 10/1992  
JP 0-508802 A1 \* 10/1992  
JP 05-08802 A1 \* 10/1992"

replace with -- EP 0 508 802 A1 \* 10/1992 --;

and delete " JP 04-311711 \* 4/1992".

In the Description,

Column 3, line 24, change "chlorotrifluoroethylehe" to --  
chlorotrifluoroethylene --;

In the Claims,

Column 14, line 29, change "chlorotrifluoroethylehe" to --  
chlorotrifluoroethylene --.

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Publication number : **0 508 802 A1**

12

**EUROPEAN PATENT APPLICATION**

21 Application number : **92303201.5**

51 Int. Cl.<sup>5</sup> : **C08J 5/18, H01L 45/00**

22 Date of filing : **10.04.92**

30 Priority : **11.04.91 JP 78998/91**

43 Date of publication of application :  
**14.10.92 Bulletin 92/42**

84 Designated Contracting States :  
**DE FR GB IT**

71 Applicant : **CENTRAL GLASS COMPANY,  
LIMITED  
5253, Oaza Okube  
Ube-city Yamaguchi-pref. (JP)**

72 Inventor : **Tsutsumi, Kentaro, c/o Tokyo  
Research Center  
Central Glass Company, Ltd., 2805,  
Imafukunakadal  
Kawagoe City (JP)**  
Inventor : **Komoriya, Haruhiko, c/o Tokyo  
Research Center  
Central Glass Company, Ltd., 2805,  
Imafukunakadal  
Kawagoe City (JP)**

74 Representative : **Myerscough, Phillip Boyd  
J.A. Kemp & Co. 14 South Square, Gray's Inn  
London WC1R 5LX (GB)**

54 **Ferroelectric film of fluoroolefin copolymer and method of forming same.**

57 The invention provides a ferroelectric film of a copolymer which comprises at least 90 mol % of vinylidene fluoride and trifluoroethylene in a molar ratio of from 70:30 to 90:10 and which has a number average molecular weight from  $3 \times 10^4$  to  $30 \times 10^4$ , a Curie point not lower than 70°C and an enthalpy change of not less than 5 J/g at said Curie point, and another enthalpy change of not less than 24 J/g at a melting point determined by differential scanning calorimetry, the film being formed from a solution of said copolymer.  
The film is formed by applying a 0.01-20 wt% solution of the copolymer in an ether to a substrate, drying the liquid film and baking the dried film at 70-160°C. The film has a high value of residual polarization and is useful, for example, in liquid crystal display devices.


EP 0 508 802 A1

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**FERROMAGNETIC COPOLYMER AND PRODUCTION OF THIN FILM THEREFROM**

**Patent number:** JP4311711  
**Publication date:** 1992-11-04  
**Inventor:** TSUTSUMI KENTARO; KOMORIYA HARUHIKO  
**Applicant:** CENTRAL GLASS CO LTD  
**Classification:**  
- **International:** C08F214/22; C08F214/26; C08J5/18; C08L27/12; G02F1/1333; G02F1/136  
- **European:** C08J3/09B3; C08J5/18; H01L45/00  
**Application number:** JP19910078998 19910411  
**Priority number(s):** JP19910078998 19910411

**Also published as:** EP0508802 (A1)**Abstract of JP4311711**

**PURPOSE:** To provide a ferromagnetic material having a large residual polarization value and capable of being applied to various display devices, etc. **CONSTITUTION:** A copolymer comprising vinylidene fluoride in an amount of 70-90mol% and trifluoroethylene, as the principal components, and having a mol.wt. of 30000-300000, a Curie point of  $\geq 70$  deg.C, an enthalpy change of  $\geq 24$  J/g at the melting point by DSC measurement and an enthalpy change of  $\geq 5$  J/g at the Curie point. The ferromagnetic thin film is obtained by coating a substrate with 0.1-20wt.% of a solution of the copolymer having the above composition in an ether-based solvent and subsequently baking the solution at 80-160 deg.C.

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**Notice of References Cited**

Application/Control No.

10/528,654

Applicant(s)/Patent Under  
Reexamination  
TADA ET AL.

Examiner

Ives Wu

Art Unit

1713

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**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,547,761 A	08-1996	Chapman et al.	428/422
*	B	US-4,454,047	06-1984	Becker et al.	210/705
*	C	US-6,268,469 B1	07-2001	Hiraga et al.	528/490
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	EP-05-08802A1 /	10-1992	Japan	Tsutsumi et al	C08J 5/18
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	The American Heritage College Dictionary , 4 <sup>th</sup> Ed, page 366
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

**Notice of References Cited**

Application/Control No.

10/528,654

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1713

Page 1 of 1

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*	C	US-4,454,047	06-1984	Becker et al.	210/705
*	D	US-3,256,251	06-1966	CAREY ROBERT J	528/500
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	G	US-			
	H	US-			
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	K	US-			
	L	US-			
	M	US-			

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*	N	JP 04-311711	04-1992	Japan	Tsutsumi et al	C08F214/22
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	P					
	Q					
	R					
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	T					

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3/31/06**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volu
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(e).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.